

## Surge protection plug - CT 10-2PE/FSR-24 - 2807968

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LSA-PLUS plug (COMTRAB CT 10) with coarse/fine surge protection and decoupling resistor for 10 floating signal circuits. Nominal voltage: 24 V DC. Version: 10 double wires.

### Your advantages

- ✓ For use with CT-TERMIBLOCK and with LSA-PLUS and LSA-PROFIL disconnect and control strips
- ✓ Multi-position, plug-in modular design
- ✓ Applications include systems with higher signal voltages
- ✓ Combined protective circuits
- ✓ Protection modules must be inserted in the correct direction



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 104757
GTIN	4017918104757

### Technical data

#### Dimensions

Height	22 mm
Width	111 mm
Depth	68.5 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
Degree of protection	IP20

#### General

Housing material	PBT
Flammability rating according to UL 94	V0
Color	black

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## Technical data

### General

Standards for clearances and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Type	LSA-PLUS module
Direction of action	Line-Line & Line-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00

### Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage $U_N$	24 V DC
Maximum continuous voltage $U_C$	40 V DC
	28 V AC
Rated current	200 mA (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu\text{A}$ (a-b)
Residual current $I_{PE}$	$\leq 1 \mu\text{A}$ (per path)
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-line)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-earth)	5 kA
Total discharge current $I_{total}$ (8/20) $\mu\text{s}$	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (line-line)	5 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (line-earth)	5 kA
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) spike	$\leq 95 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) spike	$\leq 650 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) static	$\leq 60 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) static	$\leq 650 \text{ V}$
Residual voltage at $I_n$ (line-line)	$\leq 55 \text{ V}$
Response time $t_A$ (line-line)	$\leq 1 \text{ ns}$
Response time $t_A$ (line-earth)	$\leq 100 \text{ ns}$
Input attenuation aE, sym.	1.5 dB (Typ. up to 2 MHz / 50 $\Omega$ )
	0.6 dB (Typ. up to 1 MHz / 150 $\Omega$ )
	0.2 dB (Typ. up to 100 kHz / 600 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), sym. in 50 Ohm system	7 MHz (typ.)
Cut-off frequency $f_g$ (3 dB), sym. in 150 Ohm system	4 MHz (typ.)
Cut-off frequency $f_g$ (3 dB), sym. in 600 Ohm system	900 kHz (typ.)
Capacity (line-line)	1.1 nF ( $f=1 \text{ MHz} / V_R=0 \text{ V}$ )
Capacity (line-earth)	1 pF (typ.)
Resistance per path	10 $\Omega \pm 10 \%$
Surge protection fault message	none

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## Technical data

### Protective circuit

Max. required back-up fuse	200 mA
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 2.5 kA

### Connection data

Connection method	can be plugged into COMTRAB-TERMIBLOCK and LSA-PLUS disconnect and switching strips
Connection method IN	COMTRAB plug-in system
Connection method OUT	COMTRAB plug-in system

### Standards and Regulations

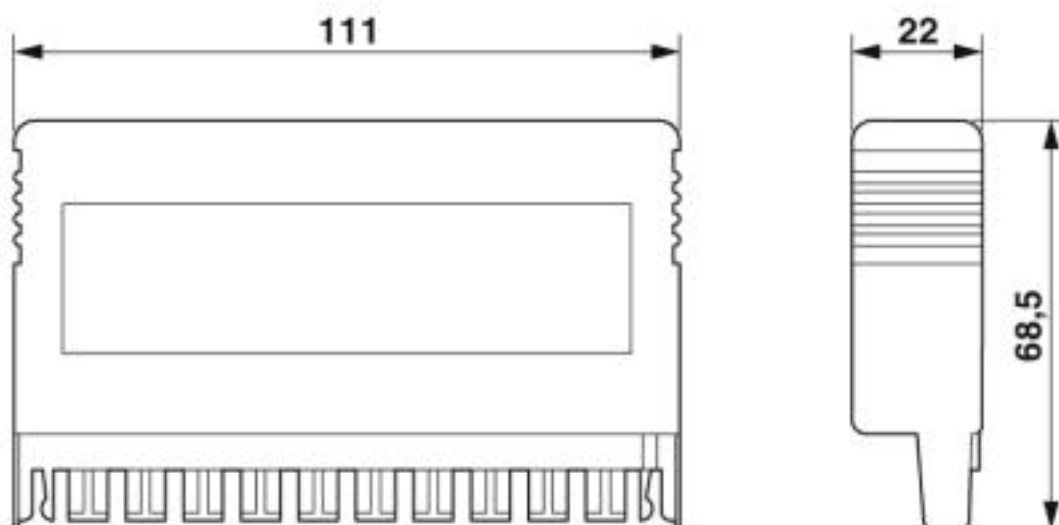
Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

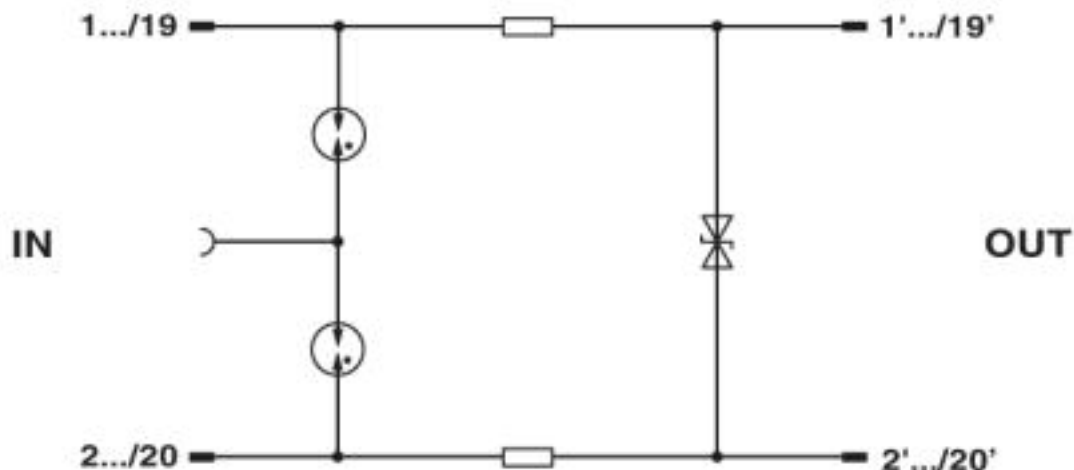
## Drawings

Dimensional drawing



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Circuit diagram



### Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620

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## Classifications

### UNSPSC

UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

## Approvals

### Approvals

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### Approvals

EAC / EAC

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Ex Approvals

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### Approval details

EAC		EAC-Zulassung
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EAC		RU C- DE.A*30.B01561
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## Accessories

### Accessories

#### Screw termination block

Screw termination block - CT-TERMIBLOCK 10 DA - 0441711



Screw termination block with disconnect contacts for accommodating protective plugs CT and CTM. Use in MCR and telecommunications systems. Design: 10 double wires

### Necessary add-on products

Disconnect strip - CT 10-TL - 2765356



LSA-PLUS disconnect strip to hold the CTM and CT 10 protection modules. Version: 10 double conductors, dimension A: 124 mm.

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### Accessories

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#### Additional products

##### Mounting clip - CT 10-MB/ 3 - 2765372



Mounting clip, for holding 3 disconnect or ground wire strips. Version: 10 double conductors, dimensions: A 104.5 mm, B 65 mm.

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##### Mounting clip - CT 10-MB/10 - 2765385



Mounting clip, for holding 10 disconnect or ground wire strips. Version: 10 double conductors, dimensions: A 104.5 mm, dimensions B 245.5 mm

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##### Cable feed-through sleeve - CT-KDT - 2765518



Cable bush for assembly troughs, for protection of the lines guided through the laminated frame

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##### Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm<sup>2</sup>, color: black

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##### Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm<sup>2</sup>, color: black

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